WHAT IS CLAIMED IS:

- A processing apparatus for processing a sample, comprising:
- a process chamber for processing the sample in a 5 predetermined atmosphere;
 - a load-lock chamber connected to said process chamber;
 - a transfer mechanism for transferring the sample between said load-lock chamber and another unit or container;
 - a clean booth which covers a transfer path of said transfer mechanism; and
 - a transfer atmosphere forming mechanism for flowing a clean gas in said clean booth.
- 15 2. The apparatus according to claim 1, wherein said transfer atmosphere forming mechanism comprises
 - a supply source of the gas, and
 - a filter inserted between said supply source of the gas and the transfer path.
- 20 3. The apparatus according to claim 1, wherein said transfer atmosphere forming mechanism comprises
 - a supply source of the gas,
 - a filter inserted between said supply source of the gas and the transfer path, and
- 25 a straightening plate for passing the gas from said filter, which has passed through the transfer path.
 - 4. The apparatus according to claim 1, further

comprising, in said load-lock chamber, a gas control mechanism for supplying a clean gas which is the same as in said process chamber or as in said clean booth into said load-lock chamber or exhausting the gas from said load-lock chamber.

- 5. The apparatus according to claim 4, wherein to supply the gas which is the same as in said process chamber to said load-lock chamber, said gas control mechanism supplies the clean gas in said process chamber to said load-lock chamber, and to supply the gas which is the same as in said clean booth to said load-lock chamber, said gas control mechanism supplies the clean gas in said clean booth to said load-lock chamber.
- 15 6. The apparatus according to claim 4, wherein gates are arranged between said load-lock chamber and said process chamber and between said load-lock chamber and said clean booth,
- in transferring the sample from said load-lock

 20 chamber to said process chamber, said gas control

 mechanism supplies the same clean gas as in said

 process chamber to said load-lock chamber before the

 gate between said load-lock chamber and said process

 chamber is opened, and
- 25 in transferring the sample from said load-lock chamber to said clean booth, said gas control mechanism supplies the same clean gas as in said clean booth to

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said load-lock chamber before the gate between said load-lock chamber and said clean booth is opened.

- 7. The apparatus according to claim 1, further comprising, in said load-lock chamber, a gas control mechanism for supplying a clean gas which is the same as in said process chamber or a clean dry gas into said load-lock chamber or exhausting the gas from said load-lock chamber.
- 8. The apparatus according to claim 7, wherein gates are arranged between said load-lock chamber and said process chamber and between said load-lock chamber and said clean booth.

in transferring the sample from said load-lock chamber to said process chamber, said gas control mechanism supplies the same clean gas as in said process chamber to said load-lock chamber before the gate between said load-lock chamber and said process chamber is opened, and

in transferring the sample from said load-lock

chamber to said clean booth, said gas control mechanism supplies the clean dry gas to said load-lock chamber before the gate between said load-lock chamber and said clean booth is opened.

- 9. The apparatus according to claim 1, wherein said 25 transfer atmosphere forming mechanism forms a laminar flow of the clean gas in said clean booth.
 - 10. The apparatus according to claim 1, further

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comprising an exposure apparatus in said process chamber.

- 11. The apparatus according to claim 1, wherein another unit comprises a coater/developer.
- 5 12. A method of processing a sample, comprising the steps of:

transferring the sample to a load-lock chamber by a transfer mechanism installed in a clean booth in which a clean gas flows;

adjusting a pressure in the load-lock chamber and transferring the sample from the load-lock chamber into a process chamber;

processing the sample in the process chamber; transferring the sample from the process chamber to the load-lock chamber; and

adjusting the pressure in the load-lock chamber, extracting the sample from the load-lock chamber, and transferring the sample by the transfer mechanism installed in the clean booth in which the clean gas flows

13. A method of manufacturing a device, comprising the steps of:

transferring a substrate coated with a photosensitive agent to a load-lock chamber by a 25 transfer mechanism installed in a clean booth in which a clean gas flows;

adjusting a pressure in the load-lock chamber and

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transferring the substrate from the load-lock chamber into a process chamber;

transferring a pattern onto the substrate by an exposure apparatus installed in the process chamber;

transferring the substrate from the process chamber to the load-lock chamber; and

adjusting the pressure in the load-lock chamber, extracting the substrate from the load-lock chamber, and transferring the substrate by the transfer mechanism installed in the clean booth in which the clean gas flows.